RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: _09/842,484_

Source: _OIPE_

Date Processed by STIC: _9/10/2001_

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY
FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.
PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)
PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.
Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:
http://www.uspto.gov/web/offices/pac/checker

OIPE

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RAW SEQUENCE LISTING              DATE: 09/10/2001
PATENT APPLICATION:  US/09/842,484    TIME: 11:18:22

Input Set : A:\sequence listings.txt
Output Set: N:\CRF3\09102001\I842484.raw
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Does Not Comply
Corrected Diskette Needed

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W-->      2 <120> TITLE OF INVENTION: CHONDROITIN SYNTHASE GENE AND METHODS OF MAKING AND USING
SAME
W-->      3 <130> FILE REFERENCE: 5820.601
W-->      4 <140> CURRENT APPLICATION NUMBER: Not Yet Assigned
C-->      5 <141> CURRENT FILING DATE: 2001-08-24
W-->      6 <160> NUMBER OF SEQ ID: 7
          7 <170> SOFTWARE: WordPerfect 8.0 (saved in ASCII format)
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PLEASE
Consult sequence
Rule for valid format

see following pages

```
ERRORED SEQUENCES

W-->      8 <210> SEQ ID NO: 1
          9 <211> LENGTH: 2941 base pairs
         10 <212> TYPE: DNA
         11 <213> ORGANISM: Pasteurella Multocida
W-->     12 <220> FEATURE:
E-->     13 <400> SEQUENCE: 0
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W-->     17 121   aaattatttg agaagtctgc tgaaacctac gggcgaaaaa tcgttgaatt ccaaattatc
W-->     18 181   aaatgtaaag aaaaactctc gaccaattct tatgtaagtg aagataaaaa aaacagtgtt
W-->     19 241   tgcgatagct cattagatat cgcaacacag ctcttacttt ccaacgtaaa aaaattaact
W-->     20 301   ctatccgaat cagaaaaaaa cagtttaaaa aataaatgga aatctatcac tgggaaaaaa
W-->     21 361   tcggagaacg cagaaatcag aaaggtggaa ctagtaccca aagattttcc taaagatctt
W-->     22 421   gttcttgctc cattgccaga tcatgttaat gattttacat ggtacaaaaa tcgaaaaaaa
W-->     23 481   agcttaggta taaagcctgt aaataagaat atcggtcttt ctattattat tcctacattt
W-->     24 541   aatcgtagcc gtatttaga tataacgtta gcctgtttgg tcaatcagaa aacaaactac
W-->     25 601   ccatttgaag tcgttgttgc agatgatggt agtaaggaa acttacttac cattgtgcaa
W-->     26 661   aaatacgaac aaaaacttga cataaagtat gtaagacaaa aagattatgg atatcaattg
W-->     27 721   tgtgcagtca gaaacttagg tttacgtaca gcaaagtatg attttgtctc gattctagac
W-->     28 781   tgcgatatgg caccacaaca attatgggtt cattcttatc ttacagaact attagaagac
W-->     29 841   aatgatattg ttttaattgg acctagaaaa tatgtggata ctcataatat taccgcagaa
W-->     30 901   caattcctta acgatccata tttaatagaa tcactacctg aaaccgctac aaataacaat
W-->     31 961   ccttcgatta catcaaaagg aaatatatcg ttggattgga gattagaaca tttcaaaaaa
W-->     32 1021      accgataatc tacgtctatg tgattctccg tttcgttatt ttgttgcggg taatgttgca
W-->     33 1081      ttttctaaag aatggctaaa taaagtaggt tggttcgatg aagaatttaa tcattggggg
W-->     34 1141      ggcgaagatg tagaatttgg ttacagatta tttgccaaag ctgttttttt cagagtaatt
W-->     35 1201      gacggcggaa tggccatcca tcaagaacca cctggtaaag aaaatgaaac agaacgcgaa
W-->     36 1261      gctggtaaaa gtattacgct taaaattgtg aaagaaaagg taccttacat ctatagaaag
W-->     37 1321      cttttaccaa tagaagattc acatattcat agaatacctt tagtttctat ttatatcccc
W-->     38 1381      gcttataact gtgcaaatta tattcaaaga tgtgtagata gtgctcttaa tcaaactgtt
W-->     39 1441      gtcgatctcg aggtttgtat ttgtaacgat ggttcaacag ataaccctt agaagtgatc
W-->     40 1501      aataagcttt atggtaataa tcctagggta cgcatcatgt ctaaaccaaa tggcggaata
W-->     41 1561      gcctcagcat caaatgcagc cgtttctttt gctaaaggtt attacattgg gcagttagat
W-->     42 1621      tcagatgatt atcttgagcc tgatgcagtt gaactgtgtt aaaagaatt tttaaaagat
W-->     43 1681      aaaacgctag cttgtgttta taccactaat agaaacgtca atccggatgg tagcttaatc
W-->     44 1741      gctaatggtt acaattggcc agaatttttca cgagaaaaac tcacaacggc tatgattgct
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Many

error

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<120> CHONDROITIN SYNTHASE GENE AND METHODS OF MAKING AND USING SAME
<130> 5820.601
<140> Not Yet Assigned
<141> Herewith
<160> 7
<170> WordPerfect 8.0 (saved in ASCII format)
<210> 1
<211> 2941 base pairs
<212> DNA
<213> Pasteurella Multocida
<220>
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120
cumulative base total at right margin of each line

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121    aaattatttg agaagtctgc tgaaacctac gggcgaaaaa tcgttgaatt ccaaattatc
181    aaatgtaaag aaaaactctc gaccaattct tatgtaagtg aagataaaaa aaacagtgtt
241    tgcgatagct cattagatat cgcaacacag ctcttacttt ccaacgtaaa aaaattaact
301    ctatccgaat cagaaaaaaa cagtttaaaa aataaatgga aatctatcac tgggaaaaaa
361    tcggagaacg cagaaatcag aaaggtggaa ctagtaccca aagattttcc taaagatctt
421    gttcttgctc cattgccaga tcatgttaat gattttacat ggtacaaaaa tcgaaaaaaa
481    agcttaggta taaagcctgt aaataagaat atcggtcttt ctattattat tcctacattt
541    aatcgtagcc gtattttaga tataacgtta gcctgtttgg tcaatcagaa aacaaactac
601    ccatttgaag tcgttgttgc agatgatggt agtaaggaaa acttacttac cattgtgcaa
661    aaatacgaac aaaaacttga cataaagtat gtaagacaaa aagattatgg atatcaattg
721    tgtgcagtca gaaacttagg tttacgtaca gcaaagtatg attttgtctc gattctagac
781    tgcgatatgg caccacaaca attatggggtt cattcttatc ttacagaact attagaagac
841    aatgatattg ttttaattgg acctagaaaa tatgtggata ctcataatat taccgcagaa
901    caattcctta acgatccata tttaatagaa tcactacctg aaaccgctac aaataacaat
961    ccttcgatta catcaaaagg aaatatatcg ttggattgga gattagaaca tttcaaaaaa
1021       accgataatc tacgtctatg tgattctccg tttcgttatt ttgttgcggg taatgttgca
1081       ttttctaaag aatggctaaa taaagtaggt tggttcgatg aagaatttaa tcattggggg
1141       ggcgaagatg tagaatttgg ttacagatta tttgccaaag gctgtttttt cagagtaatt
1201       gacggcggaa tggccatcca tcaagaacca cctggtaaag aaaatgaaac agaacgcgaa
1261       gctggtaaaa gtattacgct taaaattgtg aaagaaaagg taccttacat ctatagaaag
1321       cttttaccaa tagaagattc acatattcat agaatacctt tagtttctat ttatatcccc
1381       gcttataact gtgcaaatta tattcaaaga tgtgtagata gtgctcttaa tcaaactgtt
1441       gtcgatctcg aggtttgtat ttgtaacgat ggttcaacag ataataccct agaagtgatc
1501       aataagcttt atggtaataa tcctagggta cgcatcatgt ctaaaccaaa tggcggaata
1561       gcctcagcat caaatgcagc cgtttctttt gctaaaggtt attacattgg gcagttagat
1621       tcagatgatt atcttgagcc tgatgcagtt gaactgtgtt taaaagaatt tttaaaagat
1681       aaaacgctag cttgtgtttta taccactaat agaaacgtca atccggatgg tagcttaatc
1741       gctaatggtt acaattggcc agaatttttca cgagaaaaac tcacaacggc tatgattgct
1801       caccatttta gaatgtttac gattagagct tggcatttaa cggatggatt taacgaaaat
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1921       catcttaata aaatctgcta taaccgcgta ttacatggtg ataacacatc cattaagaaa
1981       ctcggcattc aaaagaaaaa ccattttgtt gtagtcaatc agtcattaaa tagacaaggc
2041       atcaattatt ataattatga caaatttgat gatttagatg aaagtagaaa gtatatcttc
2101       aataaaaccg ctgaatatca agaagaaatg gatatgttaa aagatcttaa actcattcaa
2161       aataaagatg ccaaaatcgc agtcagtatt ttctatccca atacattaaa cggcttagtg
2221       aaaaaactaa acaatattat tgaatataat aaaaatatat tcgttattat tctacatgtt
2281       gataagaatc atcttacacc agacatcaaa aagaaatat tggctttcta tcataagcac
2341       caagtgaata tttttactaaa taatgacatc tcatattaca cgagtaatag actaataaaa
2401       actgaggcac atttaagtaa tattaataaa ttaagtcagt taaatctaaa ttgtgaatac
2461       atcattttttg ataatcatga cagcctattc gttaaaaatg acagctatgc ttatatgaaa
2521       aaatatgatg tcggcatgaa tttctcagca ttaacacatg attggatcga gaaaatcaat
```

delite (left margin annotation at line 1141)

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2581        gcgcatccac catttaaaaa gctgattaaa acctatttta atgacaatga cttaagaagt
2641        atgaatgtga aaggggcatc acaaggtatg tttatgaagt atgcgctacc gcatgagctt
2701        ctgacgatta ttaaagaagt catcacatcc tgccaatcaa ttgatagtgt gccagaatat
2761        aacactgagg atatttggtt ccaatttgca cttttaatct tagaaaagaa aaccggccat
2821        gtatttaata aaacatcgac cctgacttat atgccttggg aacgaaaatt acaatggaca
2881        aatgaacaaa ttcaaagtgc aaaaaaaggc gaaaatatcc ccgttaacaa gttcattatt
2941        aatagtataa cgctataaaa catttgcatt ttattaaaa
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delete all these blank lines

This info. appears only once in the sequence Listing

<110> Paul DeAngelis
<120> CHONDROITIN SYNTHASE GENE AND METHODS OF MAKING AND USING SAME
<130> 5820/601
<140> Not Yet Assigned
<141> Herewith
<160> 7
<170> WordPerfect 8.0 *Software*
<210> 2
<211> 961 ~~base pairs~~ *this is an amino acid sequence*
<212> PRT

<213> Pasteurella Multocida
<220>
<223> <400> pmCS Protein Sequence
<400> 2

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121  vlaplpdhvn dftwyknrkk slgikpvnkn iglsiiiptf nrsrilditl aclvnqktny
181  pfevvvaddg skenlltivq kyeqkldiky vrqkdygyql cavrnlglrt akydfvsild
241  cdmapqqlwv hsyltelled ndivligprk yvdthnitae qflndpylie slpetatnnn
301  psitskgnis ldwrlehfkk tdnlrlcdsp fryfvagnva fskewlnkvg wfdeefnhwg
361  gedvefgyrl fakgcffrvi dggmaihqep pgkenetere agksitlkiv kekvpyiyrk
421  llpiedshih riplvsiyip ayncanyiqr cvdsalnqtv vdlevcicnd gstdntlevi
481  nklygnnprv rimskpnggi asasnaavsf akgyyigqld sddylepdav elclkeflkd
541  ktlacvyttn rnvnpdgsli angynwpefs reklttamia hhfrmftira whltdgfnen
601  ienavdydmf lklsevgkfk hlnkicynrv lhgdntsikk lgiqkknhfv vvnqslnrqg
661  inyynydkfd dldesrkyif nktaeyqeem dmlkdlkliq nkdakiavsi fypntlnglv
721  kklnniieyn knifviilhv dknhltpdik keilafyhkh qvnillnndi syytsnrlik
781  teahlsnink lsqlnlncey iifdnhdslf vkndsyaymk kydvgmnfsa lthdwiekin
841  ahppfkklik tyfndndlrs mnvkgasqgm fmkyalphel ltiikevits cqsidsvpey
901  ntediwfqfa llilekktgh vfnktstlty mpwerklqwt neqiqsakkg enipvnkfii
961  nsitl
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<110> Paul DeAngelis
<120> CHONDROITIN SYNTHASE GENE AND METHODS OF MAKING AND USING SAME
<130> 5820.601
<140> Not Yet Assigned
<141> Herewith
<160> 7
<170> WordPerfect 8.0 *Software*
<210> 3
<211> 2941 base pairs
<212> DNA
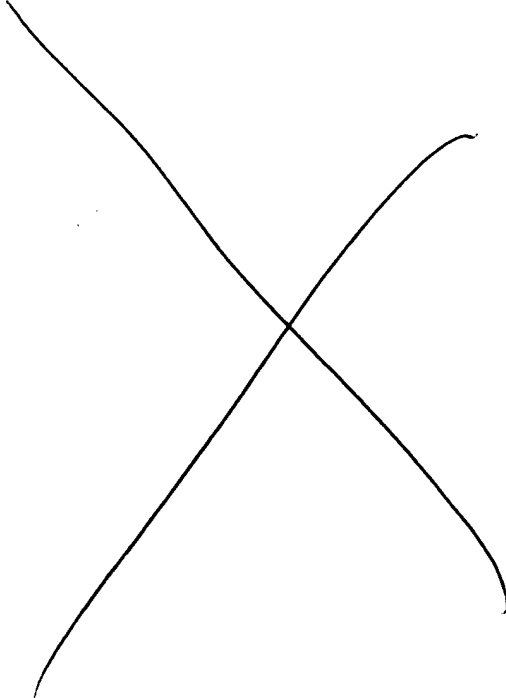<213> Pasteurella Multocida
<220>
<223> <400> pmCS DNA Sequence
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   1    atgaatacat tatcacaagc aataaaagca tataacagca atgactatga attagcactc
  61    aaattatttg agaagtctgc tgaaacctac gggcgaaaaa tcgttgaatt ccaaattatc
 121    aaatgtaaag aaaaactctc gaccaattct tatgtaagtg aagataaaaa aaacagtgtt
 181    tgcgatagct cattagatat cgcaacacag ctcttacttt ccaacgtaaa aaaattaact
 241    ctatccgaat cagaaaaaaa cagtttaaaa aataaatgga aatctatcac tgggaaaaaa
 301    tcggagaacg cagaaatcag aaaggtggaa ctagtaccca aagattttcc taaagatctt
 361    gttcttgctc cattgccaga tcatgttaat gattttacat ggtacaaaaa tcgaaaaaaa
 421    agcttaggta taaagcctgt aaataagaat atcggtcttt ctattattat tcctacattt
 481    aatcgtagcc gtattttaga tataacgtta gcctgtttgg tcaatcagaa aacaaactac
 541    ccatttgaag tcgttgttgc agatgatggt agtaaggaaa acttacttac cattgtgcaa
 601    aaatacgaac aaaaacttga cataaagtat gtaagacaaa aagattatgg atatcaattg
 661    tgtgcagtca gaaacttagg tttacgtaca gcaaagtatg attttgtctc gattctagac
 721    tgcgatatgg caccacaaca attatgggtt cattcttatc ttacagaact attagaagac
 781    aatgatattg ttttaattgg acctagaaaa tatgtggata ctcataatat taccgcagaa
 841    caattcctta acgatccata tttaatagaa tcactacctg aaaccgctac aaataacaat
 901    ccttcgatta catcaaaagg aaatatatcg ttggattgga gattagaaca tttcaaaaaa
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1081        ggcgaagatg tagaatttgg ttacagatta tttgccaaag ctgttttttt cagagtaatt
1141        gacggcggaa tggcatacca tcaagaacca cctggtaaag aaaatgaaac agaccgcgaa
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1261        ctttaccaa tagaagattc acatattcat agaatacctt tagtttctat ttatatcccc
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1741        caccatttta gaatgtttac gattagagct tggcatttaa cggatggatt taacgaaaat
1801        attgaaaacg ccgtggatta tgacatgttc cttaaactca gtgaagttgg aaaatttaaa
1861        catcttaata aaatctgcta taaccgcgta ttacatggtg ataacacatc cattaagaaa
1921        ctcggcattc aaaagaaaaa ccattttgtt gtagtcaatc agtcattaaa tagacaaggc
1981        atcaattatt ataattatga caaatttgat gatttagatg aaagtagaaa gtatatcttc
2041        aataaaaccg ctgaatatca agaagaaatg gatattttaa aagatcttaa actcattcaa
2101        aataaagatg ccaaaatcgc agtcagtatt ttctatccca atacattaaa cggcttagtg
2161        aaaaaactaa acaatattat tgaatataat aaaaatatat tcgttattat tctacatgtt
2221        gataagaatc atcttacacc agacatcaaa aaagaaatat tggctttcta tcataagcac
2281        caagtgaata tttactaaa taatgacatc tcatattaca cgagtaatag actaataaaa
2341        actgaggcac atttaagtaa tattaataaa ttaagtcagt taaatctaaa ttgtgaatac
2401        atcatttttg ataatcatga cagcctattc gttaaaaatg acagctatgc ttatatgaaa
2461        aaatatgatg tcggcatgaa tttctcagca ttaacacatg attggatcga gaaaatcaat
2521        gcgcatccac catttaaaaa gctgattaaa acctatttta atgacaatga cttaagaagt
2581        atgaatgtga aaggggcatc acaaggtatg tttatgaagt atgcgctacc gcatgagctt
2641        ctgacgatta ttaaagaagt catcacatcc tgccaatcaa ttgatagtgt gccagaatat
2701        aacactgagg atatttggtt ccaatttgca cttttaatct tagaaaagaa aaccggccat
2761        gtatttaata aaacatcgac cctgacttat atgccttggg aacgaaaatt acaatggaca
2821        aatgaacaaa ttcaaagtgc aaaaaaaggc gaaaatatcc ccgttaacaa gttcattatt
2881        aatagtataa cgctataaaa catttgcatt ttattaaaa
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<110> Paul DeAngelis
<120> CHONDROITIN SYNTHASE GENE AND METHODS OF MAKING AND USING SAME
<130> 5820.601
<140> Not Yet Assigned
<141> Herewith
<160> 7
<170> WordPerfect 8.0 *Software*
<210> 4
<211> 961 base pairs
<212> PRT
<213> Pasteurella Multocida
<220>
<223> <400> pmCS Protein Sequence
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121   vlaplpdhvn dftwyknrkk slgikpvnkn iglsiiiptf nrsrilditl aclvnqktny
181   pfevvvaddg skenlltivq kyeqkldiky vrqkdygyql cavrnlglrt akydfvsild
241   cdmapqqlwv hsyltelled ndivligprk yvdthnitae qflndpylie slpetatnnn
301   psitskgnis ldwrlehfkk tdnlrlcdsp fryfscgnva fskewlnkvg wfdeefnhwg
361   gedvefgyrl fakgcffrvi dggmayhqep pgkenetdre agksitlkiv kekvpyiyrk
421   llpiedshih riplvsiyip ayncanyiqr cvdsalnqtv vdlevcicnd gstdntlevi
481   nklygnnprv rimskpnggi asasnaavsf akgyyigqld sddylepdav elclkeflkd
541   ktlacvyttn rnvnpdgsli angynwpefs reklttamia hhfrmftira whltdgfnen
601   ienavdydmf lklsevgkfk hlnkicynrv lhgdntsikk lgiqkknhfv vvnqslnrqg
661   inyynydkfd dldesrkyif nktaeyqeem dilkdlkliq nkdakiavsi fypntlnglv
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follow instruction on previous page (p. 4)

09/842,484 9

```
721  kklnniieyn knifviilhv dknhltpdik keilafyhkh qvnillnndi syytsnrlik
781  teahlsnink lsqlnlncey iifdnhdslf vkndsyaymk kydvgmnfsa lthdwiekin
841  ahppfkklik tyfndndlrs mnvkgasqgm fmkyalphel ltiikevits cqsidsvpey
901  ntediwfqfa llilekktgh vfnktstlty mpwerklqwt neqiqsakkg enipvnkfii
961  nsitl
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delete

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<110>  Paul DeAngelis
<120>  CHONDROITIN SYNTHASE GENE AND METHODS OF MAKING AND USING SAME
<130>  5820.601
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<170>  WordPerfect 8.0 *Software*
<210>  5
<211>  24 base pairs
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<213>  Pasteurella Multocida
<220>
<223> <400>  Primer
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CACTGTCTAACTTTATTGTTAGCC
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invalid - group all non-coding bases into 10's, with a space between each group. Insert cumulative base total at right margin of each line. Use lower-case letters for bases

delete

<110> Paul DeAngelis
<120> CHONDROITIN SYNTHASE GENE AND METHODS OF MAKING AND USING SAME
<130> 5820.601
<140> Not Yet Assigned
<141> Herewith
<160> 7
<170> WordPerfect 8.0 *Software*
<210> 6
<211> 20 base pairs
<212> DNA
<213> Pasteurella Multocida
<220>
<223> <400> Primer
<400> 6
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<110> Paul DeAngelis
<120> CHONDROITIN SYNTHASE GENE AND METHODS OF MAKING AND USING SAME
<130> 5820.601
<140> Not Yet Assigned
<141> Herewith
<160> 7
<170> WordPerfect 8.0 *Software*
<210> 7
<211> 19 base pairs
<212> PRT
<213> Pasteurella Multocida
<220>
<223> <400> Antibody
<400> 7
LDSDDYLEPDAVELCLKEF

invalid — follow p. 4 instructions

FYI

Review the Sequence Listing to insure a corresponding explanation is presented in the <220> to <223> fields of each sequence using n or Xaa.